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REMARKS

Claims 1-18 and 24-28, as amended, are pending in this application. In this Response, Applicant has amended certain claims. In light of the Office Action, Applicant believes these amendments serve a useful clarification purpose, independent of patentability. Accordingly, Applicant respectfully submits that the claim amendments do not limit the range of any permissible equivalents.

In particular, independent claims 1 and 24 have been rewritten to further clarify the embodiments of the present invention. As now new matter has been added by the amendments herein, Applicants respectfully request entry of these amendments at this time.

Brief Description of the Present Invention

Further to the Examiner's comments in the Advisory Action regarding potential new matter, Applicant respectfully submits that the claims submitted in the previous response filed February 27, 2008 ("previous response") were also supported by the Written Description. For example, the Written Description explains that the ultrasonic trigger periodically emits sound waves and receives echoes. Page 4, lines 12-16. The sound waves and received echoes are used to determine the position and velocity of the golf ball and/or golf club. *Id.* In fact, the present invention is capable of reliably determining position and velocity of a golf club or golf ball based solely on the reflected waves without the need for additional equipment. Page 3, line 31 to Page 4, line 2. However, the Written Description also teaches that the ultrasonic trigger may be used in conjunction with a device that measures the kinematics of a golf club or golf ball. Page 4, lines 10-22.

In an effort to expedite allowance of the claims, several of the independent claims have been rewritten to more closely reflect an embodiment of the present invention where the position and velocity of the object(s) are determined by the ultrasonic trigger and then sent to a computing device, which is operatively connected to an imaging device, which is fully supported at Page 8, lines 5-12. As such, Applicant respectfully submits that the invention recited in the claims is fully supported by the Written Description.

THE REJECTIONS UNDER 35 U.S.C. § 103

Claims 1-18 and 24-28 were rejected under 35 U.S.C. § 103(a) as obvious over U.S. Patent No. 5,432,054 to Chang *et al.* ("Chang") in view of U.S. Patent No. 5,372,365 to McTeigue *et al.* ("McTeigue") and further in view of U.S. Patent No. 6,983,637 to Nesbit *et al.* ("Nesbit") for the reasons set forth on pages 2-6 of the Final Office Action.

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As set forth in the previous response, the cited combination does not render the present invention obvious. In fact, Chang is completely silent as to an ultrasonic trigger, McTeigue does not teach or suggest ultrasonic triggers or even triggers in general, and Nesbit's system does not include a trigger that is connected to a computing device that controls image acquisition. February 27, 2008 Response to Final Office Action at Pages 6-8.

For at least these reasons, Applicant respectfully submits that no combination of Chang, McTeigue, and Nesbit renders the claims obvious. As such, Applicant respectfully requests reconsideration and withdrawal of the § 103 rejections based thereon.

CONCLUSION

All claims are believed to be in condition for allowance. Applicants invite the Examiner to contact the undersigned attorneys to discuss any issues pertaining to the patentability of the pending claims.

A Petition for Extension of Time is submitted herewith to extend the time for response three months and including May 9, 2008. No other fees are believed to be due at this time. Should any other fees be required, however, please charge such fee to Hanify & King, P.C. Deposit Account No. 50-4545, Order No. 20002.0327.

Respectfully submitted,
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